LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1.-22. (Cancelled)
- 23. (Currently Amended) A method for impairing cancerous progenitor cells, which express CD123, but do not significantly express CD131, in a patient in need thereof, comprising introducing to the patient's bone marrow or peripheral blood a composition comprising an antibody and conjugated to a cytotoxic agent, wherein said emposition antibody binds selectively to CD123.
- 24.-57. (Cancelled)
- 58. (Previously Presented) The method of claim 23, wherein the cancerous progenitor cells do not significantly express CD131 as examined by flow cytometry.
- 59. (Cancelled)
- (Previously Presented) The method of claim 23, wherein the antibody is a monoclonal antibody, F(ab')₂, Fab or Fv.
- 61. (Previously Presented) The method of claim 23, wherein the cytotoxic agent is a chemotherapeutic agent, a plant-derived toxin, a fungus-derived toxin, a bacteria-derived toxin or a radioisotope.
- 62. (Previously Presented) The method of claim 61, wherein the bacteria-derived toxin is a deglycosylated ricin A chain, a ribosome inactivating protein, alpha-sarcin, aspergillin, restrictocin, a ribonuclease, diphtheria toxin or *Pseudomonas* exotoxin.
- 63. (Previously Presented) The method of claim 23, wherein the cytotoxic agent is a hormone, an antimetabolite, an alkylating agent, a coagulant, a cytokine, a growth factor, a bacterial endotoxin, the lipid A moiety of a bacterial endotoxin or a cytotoxin.
- 64. (Previously Presented) The method of claim 61, wherein the chemotherapeutic agent is a steroid, cytosine, arabinoside, fluorouracil, methotrexate, aminopterin, an anthracycline, mitomycin C, a vinca alkaloid, demecolcine, etoposide, mithramycin, calicheamicin, CC-1065, chlorambucil or melphalan.

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- 65. (Previously Presented) The method of claim 61, wherein the radioisotope is an alphaemitting radioisotope or a beta-emitting radioisotope.
- (Previously Presented) The method of claim 23, wherein the patient is human.
 71. (Cancelled)
- 72. (Previously Presented) A method for impairing cancerous progenitor cells, which express CD123, but do not express CD131 as examined by flow cytometry, in a patient in need thereof, comprising introducing to the patient's bone marrow or peripheral blood a composition comprising a conjugate, wherein the conjugate comprises a cytotoxic agent and an antibody that binds to CD123.
- 73.-75. (Cancelled)
- (Previously Presented) The method of claim 72, wherein the antibody selectively binds to CD123.
- 77.-92. (Cancelled)

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